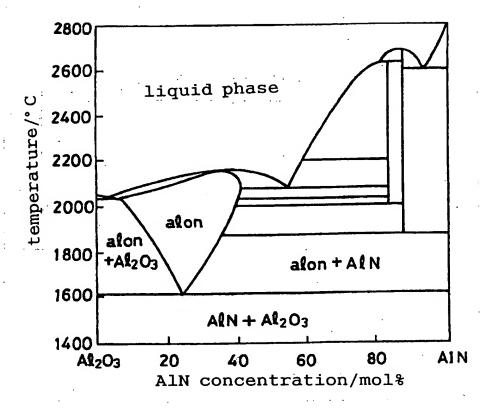
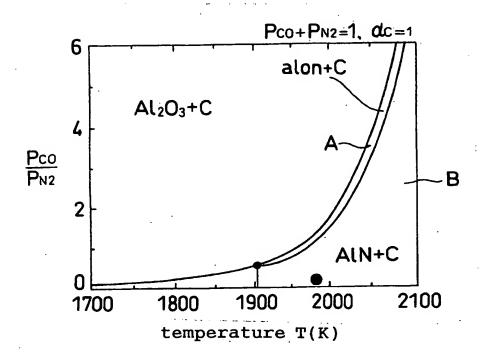


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F I G. 2



F I G. 3

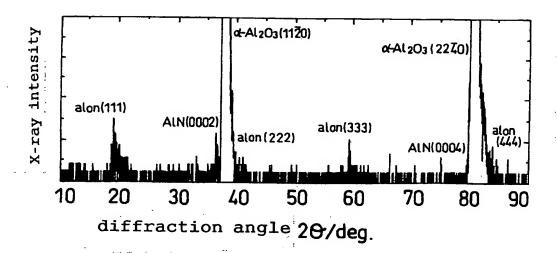
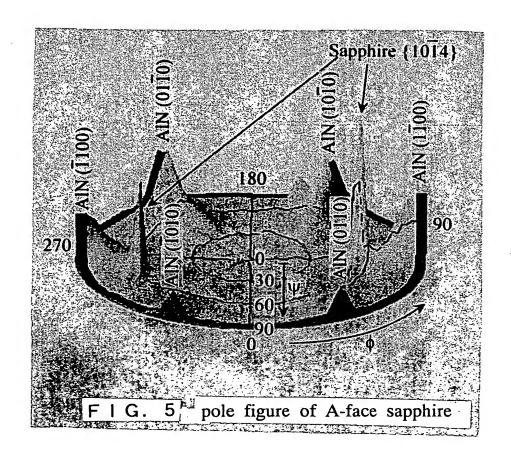
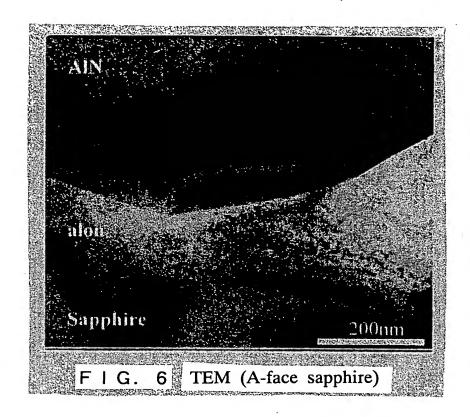
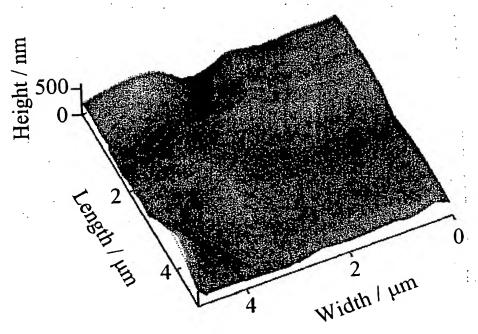


FIG. 4



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F I G. 7 AFM (A-face sapphire)

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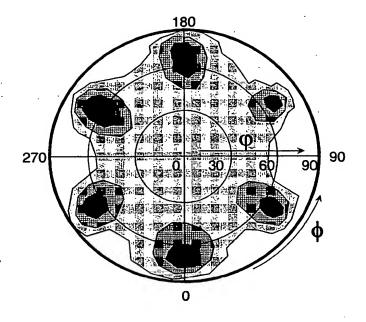


FIG. 8 pole figure of C-face sapphire

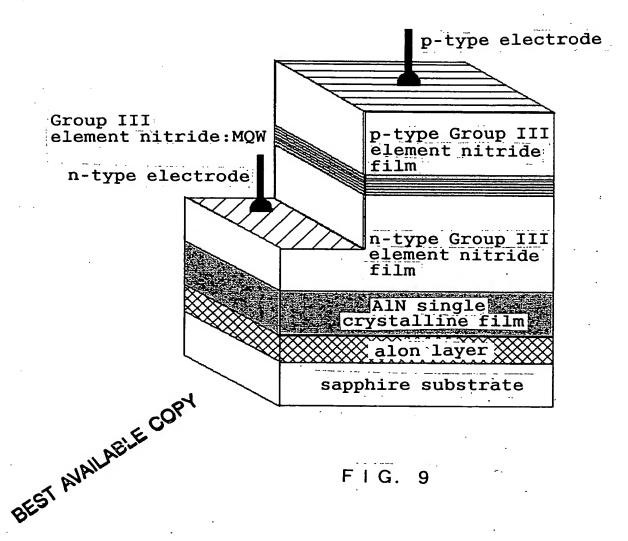


FIG. 9